

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P322048

Luminaire Tested: **GLEON-SA4C-827-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322048  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4C-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14921 lumens  
Efficiency: N/A  
Efficacy: 66.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

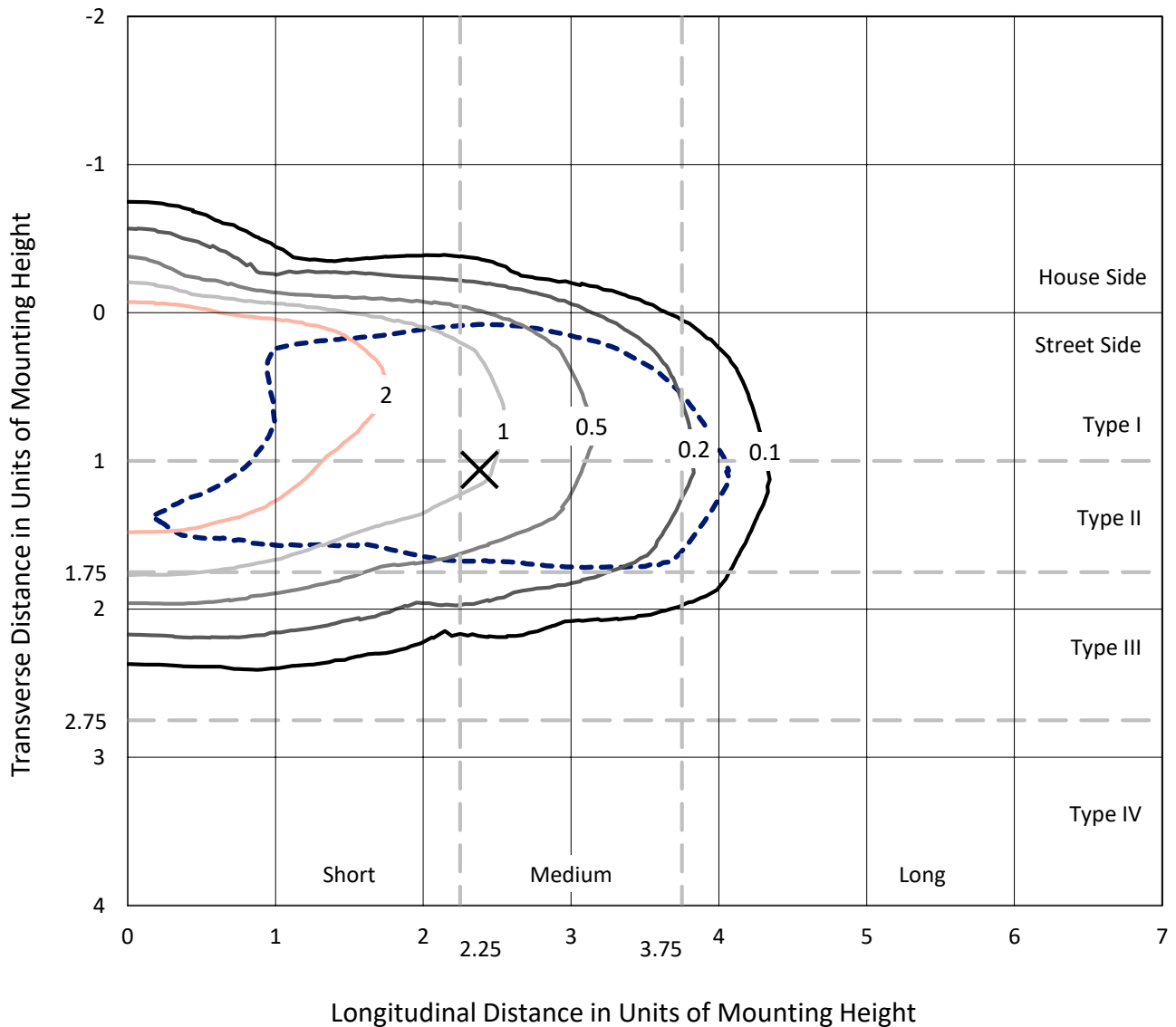
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P322048  
 CATALOG NUMBER: GLEON-SA4C-827-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

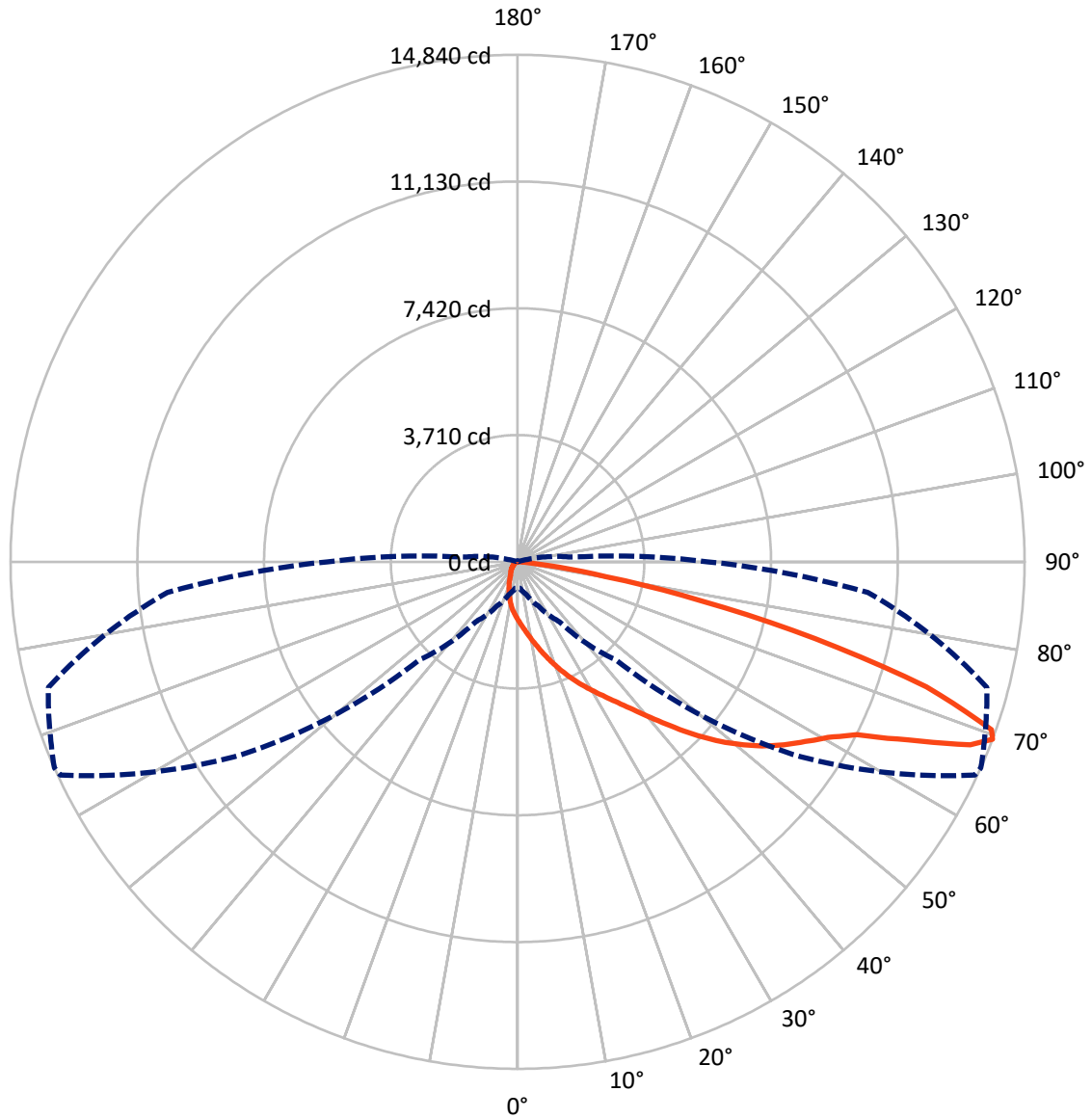
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type II - Medium - N/A

REPORT NUMBER: P322048  
CATALOG NUMBER: GLEON-SA4C-827-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P322048  
 CATALOG NUMBER: GLEON-SA4C-827-U-T2-HSS

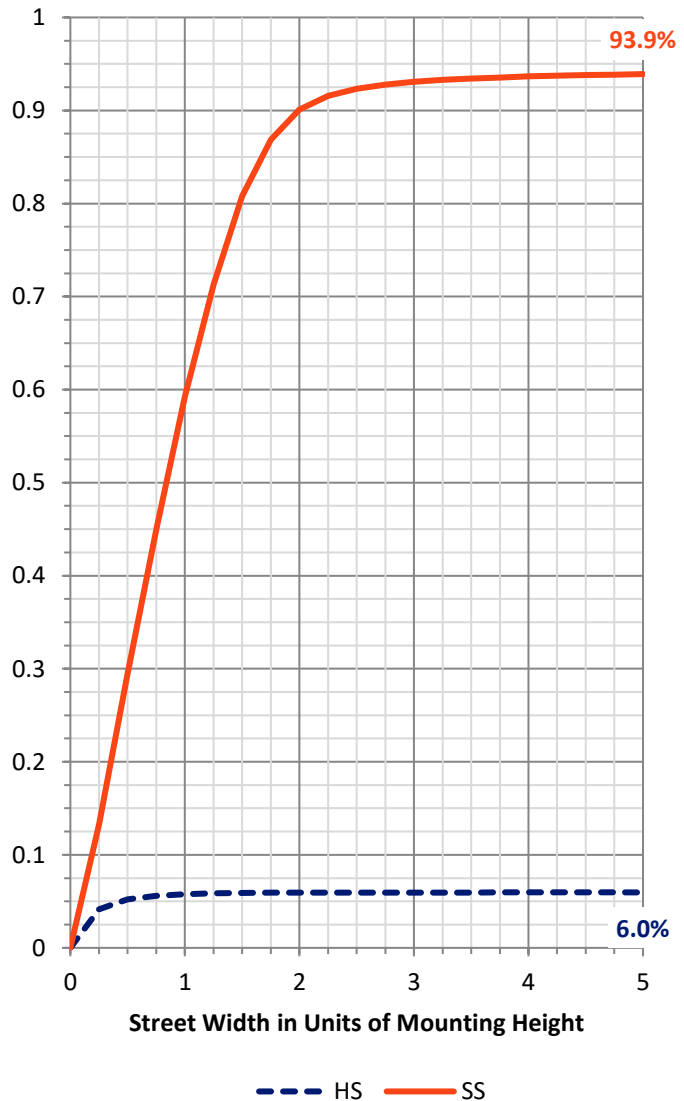
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	895.1	0.0	895.1
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	14026.0	0.0	14026.0
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	14921.0	0.0	14921.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.1	1.1
10°-20°	488.5	3.3
20°-30°	850.7	5.7
30°-40°	1492.5	10.0
40°-50°	2498.2	16.7
50°-60°	3672.2	24.6
60°-70°	3770.4	25.3
70°-80°	1861.3	12.5
80°-90°	123.1	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14921.0	100.0
0°-180°	14921.0	100.0

**Coefficient of Utilization**

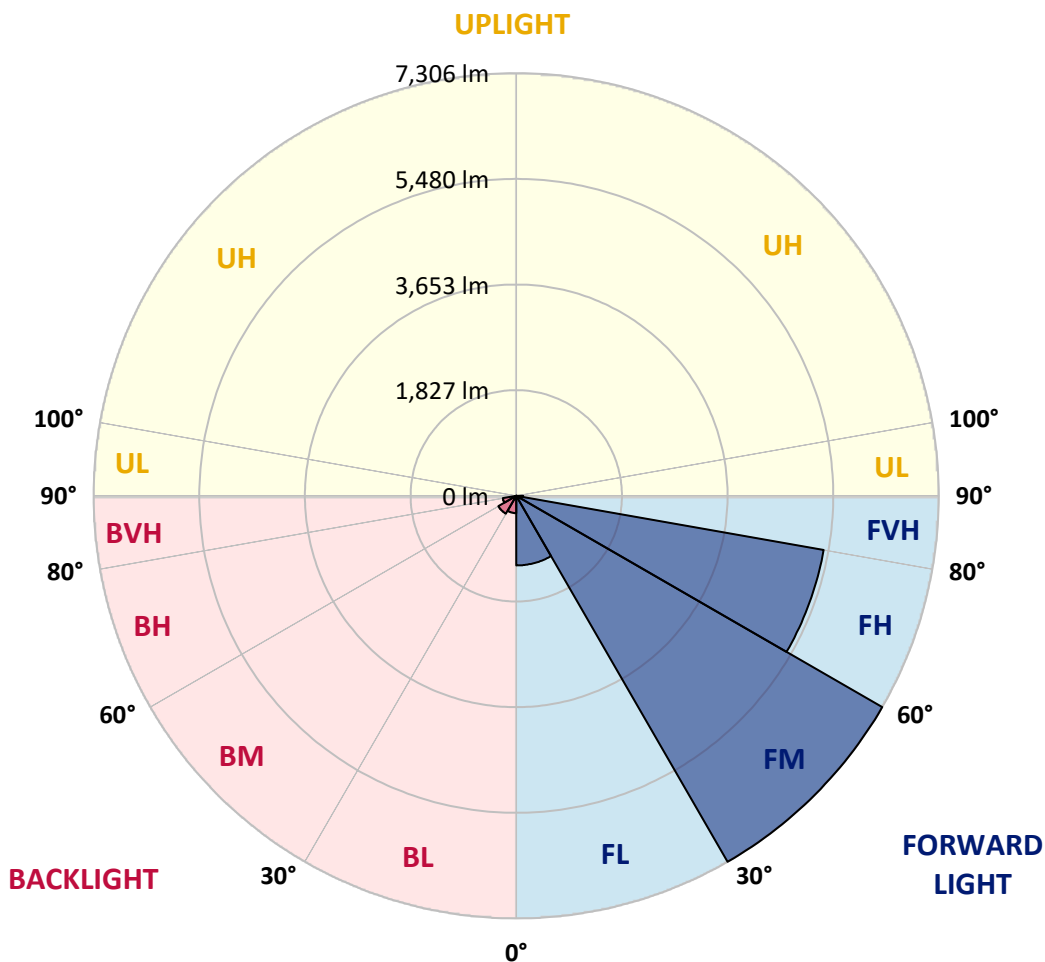


REPORT NUMBER: P322048  
 CATALOG NUMBER: GLEON-SA4C-827-U-T2-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1204.0	8.1			
FM (30°-60°)	7306.0	49.0			
FH (60°-80°)	5395.8	36.2			G3/7500
FVH (80°-90°)	120.1	0.8			G2/225
BL (0°-30°)	299.3	2.0	B1/500		
BM (30°-60°)	356.9	2.4	B1/1000		
BH (60°-80°)	235.9	1.6	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type II Medium





REPORT NUMBER: P322048

CATALOG NUMBER: GLEON-SA4C-827-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1698.1	1698.1	1698.1	1698.1	1698.1	1698.1	1698.1	1698.1	1698.1	1698.1	1698.1
2.5°	1998.5	1990.0	1986.5	1970.9	1944.0	1923.4	1883.7	1837.7	1829.2	1784.5	1729.9
5°	2257.9	2250.8	2245.9	2223.9	2196.3	2144.5	2072.3	1986.5	1970.2	1885.2	1776.0
7.5°	2438.7	2451.4	2451.4	2437.2	2402.5	2363.5	2274.9	2158.0	2137.5	2007.1	1837.7
10°	2544.3	2559.8	2571.9	2583.9	2579.0	2563.4	2479.8	2347.9	2323.1	2150.2	1909.3
12.5°	2554.2	2569.8	2603.8	2654.1	2703.0	2738.4	2686.0	2558.4	2530.1	2316.0	1994.3
15°	2498.9	2515.2	2567.6	2665.4	2783.8	2887.3	2904.3	2791.6	2762.5	2513.8	2100.6
17.5°	2402.5	2413.1	2488.3	2623.6	2809.3	2999.2	3102.0	3041.8	3014.8	2739.9	2219.0
20°	2330.9	2338.7	2404.6	2549.9	2793.7	3069.4	3289.1	3307.5	3279.2	2982.2	2347.2
22.5°	2453.5	2467.7	2469.8	2538.6	2751.2	3104.1	3453.5	3569.0	3547.8	3239.5	2473.4
25°	2788.8	2805.1	2751.2	2708.7	2787.3	3119.7	3594.6	3836.9	3819.9	3516.6	2600.2
27.5°	3231.7	3248.7	3179.3	3052.4	2976.6	3178.5	3720.0	4109.1	4108.4	3810.0	2737.0
30°	3666.8	3683.8	3613.0	3486.1	3311.8	3345.1	3828.4	4394.0	4398.2	4112.6	2882.3
32.5°	4123.2	4144.5	4071.5	3908.5	3726.4	3632.8	3980.8	4680.3	4704.4	4463.4	3046.0
35°	4642.0	4644.9	4542.1	4371.3	4161.5	4017.6	4225.3	5001.3	5058.7	4897.9	3253.7
37.5°	5150.9	5171.4	5087.1	4817.8	4625.0	4462.0	4588.9	5402.5	5484.0	5428.7	3525.1
40°	5527.9	5571.1	5559.1	5268.5	5085.7	4969.4	5040.3	5879.4	5982.9	6046.7	3867.4
42.5°	5764.6	5797.2	5852.5	5677.4	5511.6	5530.7	5573.3	6435.0	6562.6	6751.1	4260.7
45°	6036.0	6051.6	6097.7	6020.5	5908.5	6101.2	6138.8	7060.8	7194.8	7508.7	4697.3
47.5°	6367.7	6404.6	6417.3	6346.5	6295.4	6605.8	6683.8	7629.9	7817.7	8320.2	5159.4
50°	6790.1	6800.0	6822.0	6775.9	6724.9	7039.6	7172.8	8227.4	8398.2	9134.5	5615.1
52.5°	7203.3	7238.7	7315.3	7286.2	7265.6	7408.8	7608.7	8766.0	8956.6	9813.4	6070.1
55°	7322.3	7352.8	7617.2	7797.9	7965.1	7863.8	8025.4	9248.6	9454.8	10420.1	6508.0
57.5°	6846.8	6908.5	7366.3	7836.9	8530.7	8571.1	8598.0	9744.0	9929.0	10885.0	6963.7
60°	5644.8	5656.9	6408.1	7215.3	8437.1	9188.4	9434.3	10276.2	10431.4	11318.0	7509.4
62.5°	3590.3	3712.9	4537.1	5676.7	7447.8	9099.1	10445.6	11081.3	11138.0	11837.5	8291.9
65°	1710.1	1789.5	2383.4	3507.4	5394.7	7955.9	11143.7	12537.7	12563.2	12867.3	9337.2
67.5°	946.8	985.1	1267.9	1888.0	3153.7	5626.4	10861.6	14262.7	14286.8	13919.0	10254.3
69°	740.6	773.2	995.7	1423.1	2138.2	4043.9	9829.0	14768.0	14839.6	14220.2	10286.9
70°	628.6	660.5	857.5	1202.0	1719.3	3124.7	8749.0	14642.6	14718.4	14191.8	10043.8
72.5°	384.8	403.3	571.2	846.2	1152.4	1571.9	5395.4	12383.2	12511.5	13018.2	8632.0
75°	259.4	269.3	357.2	584.0	824.2	809.3	2802.9	8728.4	9006.2	10126.7	6375.5
77.5°	185.7	194.9	239.5	377.7	577.6	534.4	1269.3	5424.4	5484.0	6073.6	3476.9
80°	105.6	114.1	169.4	224.7	391.9	356.5	504.6	2591.0	2620.8	2604.5	1160.9
82.5°	55.3	62.4	92.8	148.1	251.6	233.2	209.8	867.5	871.7	725.0	254.4
85°	10.6	12.8	46.1	101.3	129.7	101.3	85.8	203.4	207.7	183.6	63.1
87.5°	0.0	0.7	18.4	22.7	25.5	26.2	27.6	39.7	42.5	57.4	17.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P322048

CATALOG NUMBER: GLEON-SA4C-827-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1698.1	1698.1	1698.1	1698.1	1698.1	1698.1	1698.1	1698.1	1698.1	1698.1	1698.1
2.5°	1705.9	1680.3	1631.4	1574.7	1530.8	1487.6	1453.6	1418.1	1405.4	1399.0	1398.3
5°	1722.9	1669.0	1565.5	1459.2	1372.1	1289.8	1231.0	1175.0	1148.8	1136.8	1131.8
7.5°	1751.2	1664.7	1498.2	1335.9	1210.5	1107.7	1026.2	965.3	934.8	922.0	917.1
10°	1784.5	1659.1	1419.5	1205.5	1045.3	939.0	858.2	798.0	764.7	750.5	743.4
12.5°	1823.5	1649.2	1328.8	1073.7	904.3	798.0	700.2	625.8	587.5	571.2	563.4
15°	1871.7	1639.2	1233.9	949.7	780.3	650.6	543.6	493.3	485.5	482.6	483.3
17.5°	1919.2	1623.6	1130.4	827.1	649.9	508.1	453.6	450.7	452.2	452.2	452.2
20°	1961.7	1588.2	1017.7	722.2	525.9	428.8	417.4	412.5	408.9	406.1	402.5
22.5°	1995.0	1540.7	909.3	618.0	429.5	392.6	374.9	359.3	346.6	338.1	333.8
25°	2017.7	1477.7	810.1	518.1	386.2	357.2	325.3	299.1	279.2	267.2	262.2
27.5°	2034.7	1409.6	721.5	433.7	356.5	316.1	274.3	243.1	222.5	211.9	207.7
30°	2046.7	1332.4	643.5	381.3	323.2	272.9	228.2	197.7	182.8	177.2	174.3
32.5°	2058.1	1246.6	569.8	356.5	292.0	233.2	191.4	168.0	158.7	151.7	149.5
35°	2086.4	1167.2	499.6	330.3	260.1	199.1	164.4	147.4	138.2	133.9	132.5
37.5°	2153.8	1108.4	432.3	303.3	228.2	172.2	143.9	131.8	123.3	119.1	117.6
40°	2262.2	1078.6	375.6	274.3	197.0	151.7	130.4	119.1	109.8	103.5	102.1
42.5°	2421.6	1082.9	335.9	245.2	172.2	135.4	117.6	104.2	94.3	88.6	87.2
45°	2615.1	1114.1	308.3	216.9	151.7	122.6	103.5	89.3	80.1	75.1	73.7
47.5°	2824.9	1164.4	285.6	191.4	135.4	110.6	89.3	74.4	66.6	62.4	61.7
50°	3046.0	1213.3	262.2	166.5	121.2	98.5	75.1	61.7	55.3	51.7	50.3
52.5°	3270.0	1270.0	241.0	143.9	109.1	84.3	62.4	50.3	45.4	42.5	41.1
55°	3510.9	1312.5	220.4	126.1	97.1	71.6	51.7	41.8	37.6	34.0	33.3
57.5°	3794.4	1378.4	199.1	109.1	82.9	59.5	42.5	33.3	29.8	26.2	25.5
60°	4177.1	1455.7	176.5	96.4	68.0	48.9	34.7	26.9	22.7	19.8	19.1
62.5°	4681.7	1541.4	148.1	84.3	55.3	39.7	27.6	21.3	16.3	12.8	12.8
65°	5321.7	1681.0	121.2	70.9	45.4	32.6	21.3	15.6	9.2	5.7	5.7
67.5°	5695.2	1705.1	97.8	58.1	36.9	27.6	17.7	10.6	2.8	0.7	0.0
69°	5575.4	1565.5	82.9	49.6	31.9	26.2	16.3	7.8	1.4	0.0	0.0
70°	5350.0	1431.6	73.0	43.9	29.1	24.8	15.6	5.7	1.4	0.0	0.0
72.5°	4420.9	1019.1	55.3	32.6	21.3	22.0	14.2	3.5	1.4	0.0	0.0
75°	3220.4	619.4	39.7	22.7	13.5	16.3	9.9	1.4	0.7	0.0	0.0
77.5°	1791.6	292.0	24.8	12.8	8.5	9.9	5.0	0.0	0.0	0.0	0.0
80°	581.8	79.4	11.3	7.1	5.0	5.7	2.1	0.0	0.0	0.0	0.0
82.5°	107.7	22.7	6.4	3.5	1.4	1.4	0.0	0.0	0.0	0.0	0.0
85°	23.4	9.2	3.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	2.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)